

ACRYREX® CM-205

Polymethyl Methacrylate Acrylic

CHI MEI CORPORATION

Message:

ACRYREX® CM-205 is a Polymethyl Methacrylate Acrylic product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Automotive.

Characteristics include:

Flame Rated

RoHS Compliant

General Information			
UL YellowCard	E56070-455994	E56070-245759	
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.19	g/cm ³	ASTM D792
23°C	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.8	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	4.60	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 6.35 mm)	97		ASTM D785
Ball Indentation Hardness (H 358/30)	158	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	73.0	MPa	ISO 527-2/50
Break	73.0	MPa	ISO 527-2/50
3.18 mm ¹	70.6	MPa	ASTM D638
Tensile Elongation			
Break, 3.18 mm ²	5.0	%	ASTM D638
Break	10	%	ISO 527-2/50
Flexural Modulus ³	2800	MPa	ISO 178
Flexural Strength			
6.35 mm ⁴	108	MPa	ASTM D790
-- ⁵	103	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179, ISO 179/2C
Charpy Unnotched Impact Strength			
--	26	kJ/m ²	ISO 179
--	22	kJ/m ²	ISO 179/2U
Notched Izod Impact			
23°C, 6.35 mm	20	J/m	ASTM D256

--	2.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	21	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.35 mm ⁶	100	°C	ASTM D648
1.8 MPa, Unannealed	87.0	°C	ISO 75-2/A
1.8 MPa, Annealed	106	°C	ISO 75-2/A
Vicat Softening Temperature			
--	113	°C	ASTM D1525 ⁷
--	119	°C	ISO 306/A50
--	116	°C	ISO 306/A120
--	108	°C	ISO 306/B50, ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (3180 μm)	92.0	%	ASTM D1003
NOTE			
1.	6.0 mm/min		
2.	6.0 mm/min		
3.	2.0 mm/min		
4.	2.8 mm/min		
5.	2.0 mm/min		
6.	120°C/hr		
7.	Rate A (50°C/h)		

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